

FORM PTO-1449

**SIXTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.
0942.5000001/RWE/BJD/T-M

APPLICATION No.
09/695,065

APPLICANT(S)
Brasch *et al.*

FILING DATE
October 25, 2000

ART UNIT
1634

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
<i>W</i>	AS	<u>119</u>	Ball, C.A., and Johnson, R.C., "Efficient Excision of Phage λ from the <i>Escherichia coli</i> Chromosome Requires the Fis Protein," <i>J. Bacteriol.</i> 173: 4027-4031, American Society for Microbiology (1991)
<i>W</i>	AT	<u>119</u>	Bruckner, R.C., and Cox, M.M., "The Histone-like H Protein of <i>Escherichia coli</i> is a ribosomal protein s3," <i>Nucl. Acids Res.</i> 17:3145-3161, Oxford University Press (1989)

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	AO						Yes
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	AP						Yes
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	AR	<u>120</u>	Hartley, J.L., <i>et al.</i> , "DNA Cloning Using In Vitro Site-Specific Recombination," <i>Genome Res.</i> 10:1788-1795, Cold Spring Harbor Laboratory Press (November 2000)
	AS	<u>120</u>	Heyman, J.A., <i>et al.</i> , "Genome-Scale Cloning and Expression of Individual Open Reading Frames Using Topoisomerase I-Mediated Ligation," <i>Genome Res.</i> 9:383-392, Cold Spring Harbor Laboratory Press (April 1999)
	AT	<u>120</u>	Lenski, R.E., <i>et al.</i> , "Genetic Analysis of a Plasmid-Encoded, Host Genotype-Specific Enhancement of Bacterial Fitness," <i>J. Bacteriol.</i> 176:3140-3147, American Society For Microbiology (1994)

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	AP						Yes
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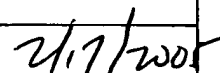
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>121</u>	Ohara, O., and Temple, G., "Directional cDNA library construction assisted by the <i>in vitro</i> recombination reaction," <i>Nucl. Acids Research</i> 29:e22(1-8), Oxford University Press (February 2001)
	AS	<u>121</u>	Russell, M., "A recombination-based cloning system that decreases time to protein analysis," <i>Am. Biotechnol. Lab.</i> 18:8,10, International Scientific Communications, Inc. (June 2000)
	AT	<u>121</u>	Sinclair, B., "Honing Your Cloning," <i>The Scientist</i> 14:29-32, The Scientist Inc. (August 21, 2000) available at: http://www.the-scientist.com/yr2000/aug/profile1_000821.html

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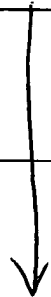
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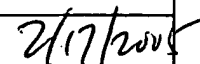
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>122</u>	Stuurman, J., <i>et al.</i> , "Single-site manipulation of tomato chromosomes <i>in vitro</i> and <i>in vivo</i> using Cre-lox site-specific recombination," <i>Plant Molecular Biology</i> 32:901-913, Kluwer Academic Publishers (November 27, 1996)
	AS	<u>122</u>	Office Action for U.S. Patent Application No. 09/907,719, mailed on July 13, 2004
	AT	<u>122</u>	Office Action for U.S. Patent Application No. 09/432,085, mailed on July 16, 2004

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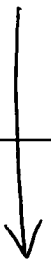
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	AR	<u>123</u>	Office Action for U.S. Patent Application No. 10/058,291, mailed on September 22, 2004
	AS	<u>123</u>	Office Action for U.S. Patent Application No. 10/058,292, mailed on September 22, 2004
	AT	<u>123</u>	Office Action for U.S. Patent Application No. 09/855,797, mailed on October 1, 2004

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	AR	<u>124</u>	Office Action for U.S. Patent Application No. 10/820,133 mailed on November 17, 2004
	AS	<u>124</u>	Office Action for U.S. Patent Application No. 09/907,719 mailed on December 28, 2004
	AT	<u>124</u>	Office Action for U.S. Patent Application No. 09/432,085, mailed on December 28, 2004

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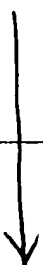
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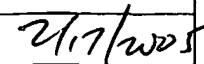
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>125</u>	Invitrogen Online Catalog, "The Echo™ Cloning System: The Future of Cloning is Here," available at: http://web.archive.org/web/20010112191100/www.invitrogen.com/catalog_project/cat_echo.html (accessed July 7, 2004)
	AS	<u>125</u>	Invitrogen Online Catalog, "The Echo™ Cloning System: The Future of Cloning is Here," available at: http://invitrogen.com/content.cfm?pageid=3371&cfid=16767784&cftoken=62396683 (accessed July 7, 2004)
	AT	<u>125</u>	U.S. Patent Application No. 10/877,952, Welch <i>et al.</i> , filed 07/28/2004 (NOT PUBLISHED)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>126</u>	U.S. Patent Application No. 10/913,501, Chesnut <i>et al.</i> , filed 08/09/2004 (NOT PUBLISHED)
	AS	<u>126</u>	U.S. Patent Application No. 10/921,265, Hartley <i>et al.</i> , filed 08/19/2004 (NOT PUBLISHED)
	AT	<u>126</u>	U.S. Patent Application No. 10/970,635, Hanson, filed 10/22/2004 (NOT PUBLISHED)

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	AN						Yes
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	AO						Yes
							No
	AP						Yes
							No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>u</i>	AR	<u>127</u>	U.S. Patent Application No. 11/000,371, Chesnut <i>et al.</i> , filed 12/01/2004 (NOT PUBLISHED)
	AS		
	AT		

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Julie W

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<i>u</i>	AA20	4,808,537	02/28/1989	Stroman <i>et al.</i>			10/30/1984
	AB20	4,855,231	08/08/1989	Stroman <i>et al.</i>			09/25/1985
	AC20	4,959,217	09/25/1990	Sanders <i>et al.</i>			05/22/1986
	AD20	5,451,513	09/19/1995	Maliga <i>et al.</i>			08/25/1993
	AE20	5,654,182	08/05/1997	Wahl <i>et al.</i>			06/07/1995
	AF20	2002/0068290	06/06/2002	Yarovinsky			05/31/2001
	AG20	2002/0106797	08/08/2002	Miles <i>et al.</i>			03/12/2001
	AH20	2002/0182731	12/05/2002	Ji <i>et al.</i>			01/25/2002
	AI20	2003/0027289	02/06/2003	Farmer			04/05/2002
	AJ20	2003/0054555	03/20/2003	Farmer <i>et al.</i>			09/17/2002
	AK20	2003/0059900	03/27/2003	Farmer			01/17/2002

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>u</i>	AL20	FR 2 670 502	06/19/1992	France			Yes No
<i>u</i>	AM20	WO 92/10577	06/25/1992	WIPO			Yes No
<i>u</i>	AN20	WO 94/20604	09/15/1994	WIPO			Yes No
	AO20	WO 96/19497	06/27/1996	WIPO			Yes No
	AP20	WO 00/29000	05/25/2000	WIPO			Yes No

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<i>u</i>	AR	200	Agah, R., <i>et al.</i> , "Gene Recombination in Postmitotic Cells. Targeted Expression of Cre Recombinase Provokes Cardiac-restricted, Site-specific Rearrangement in Adult Ventricular Muscle In Vivo," <i>J. Clin. Invest.</i> 100:169-179, The American Society for Clinical Investigation, Inc. (July 1997)
	AS	200	Benoist, C. and Chambon, P., "In vivo sequence requirements of the SV40 early promoter region," <i>Nature</i> 290:304-310, Macmillan Journals, Ltd. (1981)
	AT	200	Botstein, D., <i>et al.</i> , "Making Mutations <i>In Vitro</i> and Putting Them Back Into Yeast," in <i>From Gene to Protein: Translation into Biotechnology</i> , Ahmad, F., <i>et al.</i> , eds., Academic Press, New York, NY, pp. 265-274 (1982)

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<i>W</i>	AA21	2003/0153055	08/14/2003	Miles <i>et al.</i>			02/20/2003
	AB21	2003/0176644	09/18/2003	Byrd <i>et al.</i>			02/07/2002
	AC21	2003/0220249	11/27/2003	Hackett <i>et al.</i>			02/07/2003
	AD21	2004/0040053	02/26/2004	Nomura <i>et al.</i>			11/22/2002
	AE21	2004/0053412	03/18/2004	Hartley <i>et al.</i>			03/26/2003
	AF21	2004/0063207	04/01/2004	Hartley <i>et al.</i>			10/08/2003
	AG21	6,720,140	04/13/2004	Hartley <i>et al.</i>			02/04/2000
	AH21	2004/0171156	09/02/2004	Hartley <i>et al.</i>			04/02/2004
	AI21	2004/0171157	09/02/2004	Hartley <i>et al.</i>			04/08/2004
	AJ21	2004/0219516	11/04/2004	Bennett <i>et al.</i>			07/18/2003
	AK21	2004/0219673	11/04/2004	Hartley <i>et al.</i>			03/10/2004

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<i>W</i>	AL21	WO 00/52027	09/08/2000	WIPO			Yes No
	AM21	WO 00/52141	09/08/2000	WIPO			Yes No
	AN21	WO 01/25466	04/12/2001	WIPO			Yes No
	AO21	WO 01/31039	05/03/2001	WIPO			Yes No
	AP21	WO 01/42509	06/14/2001	WIPO			Yes No

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<i>W</i>	AR	<u>201</u>	Broach, J.R., "The Yeast Plasmid 2 μ Circle," <i>Cell</i> 28:203-204, MIT (1982)
	AS	<u>201</u>	Cenatiempo, Y., "Prokaryotic gene expression <i>in vitro</i> : transcription-translation coupled systems," <i>Biochimie</i> 68:505-515, Elsevier (1986)
	AT	<u>201</u>	Christiansen, B., <i>et al.</i> , "A Resolvase-Like Protein Is Required for the Site-Specific Integration of the Temperate Lactococcal Bacteriophage TP901-1," <i>J. Bacteriol.</i> 178:5164-5173, American Society for Microbiology (September 1996)

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	AM22	WO 02/08391	01/31/2002	WIPO			Yes
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	AN22	WO 02/16594	02/28/2002	WIPO			Yes
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	AO22	WO 02/46372	06/13/2002	WIPO			Yes
							No
	AP22	WO 02/061034	08/08/2002	WIPO			Yes
							No

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<i>m</i>	AR	<u>202</u>	Crellin, P.K. and Rood, J.I., "The Resolvase/Invertase Domain of the Site-Specific Recombinase TnpX Is Functional and Recognizes a Target Sequence That Resembles the Junction of the Circular Form of the <i>Clostridium perfringens</i> Transposon Tn4451," <i>J. Bacteriol.</i> 179:5148-5156, American Society for Microbiology (August 1997)
	AS	<u>202</u>	Ferrin, L.J. and Camerini-Otero, R.D., "Sequence-specific ligation of DNA using RecA protein," <i>Proc. Natl. Acad. Sci. USA</i> 95:2152-2157, National Academy of Sciences (March 1998)
	AT	<u>202</u>	Golic, K.G. and Golic, M.M., "Engineering the Drosophila Genome: Chromosome Rearrangements by Design," <i>Genetics</i> 144:1693-1711, The Genetics Society of America (1996)

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<i>m</i>	AL23	WO 02/062957	08/15/2002	WIPO			Yes No
	AM23	WO 02/086144	10/31/2002	WIPO			Yes No
	AN23	WO 02/095055	11/28/2002	WIPO			Yes No
	AO23	WO 03/025161	03/27/2003	WIPO			Yes No
	AP23	WO 03/044207	05/30/2003	WIPO			Yes No

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<i>m</i>	AR	<u>203</u>	Gottesman, S., "Bacterial Regulation: Global Regulatory Networks," <i>Ann. Rev. Genet.</i> 18:415-441, Annual Reviews, Inc. (1984)
	AS	<u>203</u>	Guo, F., <i>et al.</i> , "Structure of Cre recombinase complexed with DNA in a site-specific recombination synapse," <i>Nature</i> 389:40-46, Nature Publishing Group (September 1997)
	AT	<u>203</u>	Hallet, B. and Sherratt, D.J., "Transposition and site-specific recombination: adapting DNA cut-and-paste mechanisms to a variety of genetic rearrangements," <i>FEMS Microbiol. Rev.</i> 21:157-178, Elsevier Science B.V. (September 1997)

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<i>m</i>	AL24	WO 03/103600	12/18/2003	WIPO			Yes No
<i>↓</i>	AM24	WO 04/009768	01/29/2004	WIPO			Yes No
<i>↓</i>	AN24	WO 04/013290	02/12/2004	WIPO			Yes No
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<i>m</i>	AR	<u>204</u>	Hamer, D.H. and Walling, M., "Regulation <i>In Vivo</i> of a Cloned Mammalian Gene: Cadmium Induces the Transcription of a Mouse Metallothionein Gene in SV40 Vectors," <i>J. Mol. Appl. Genet.</i> 1:273-288, Raven Press (1982)
<i>↓</i>	AS	<u>204</u>	Hanks, S.K. and Hunter, T., "The eukaryotic protein kinase superfamily: kinase (catalytic) domain structure and classification," <i>FASEB J.</i> 9:576-596, The Federation of American Societies for Experimental Biology (May 1995)
<i>↓</i>	AT	<u>204</u>	Huang, L-C., <i>et al.</i> , "Convenient and Reversible Site-Specific Targeting of Exogenous DNA into a Bacterial Chromosome by Use of the FLP Recombinase: the FLIRT System," <i>J. Bacteriol.</i> 179:6076-6083, American Society for Microbiology (October 1997)

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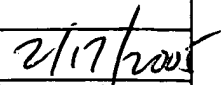
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	AR	<u>205</u>	John, Jr., J.F. and Twitty, J.A., "Plasmids as Epidemiologic Markers in Nosocomial Gram-Negative Bacilli: Experience at a University and Review of the Literature," <i>Rev. Infect. Dis.</i> 8:693-704, University of Chicago (1986)
	AS	<u>205</u>	Johnston, S.A. and Hopper, J.E., "Isolation of the yeast regulatory gene <i>GAL4</i> and analysis of its dosage effects on the galactose/melibiose regulon," <i>Proc. Natl. Acad. Sci. USA</i> 79:6971-6975, National Academy of Sciences (1982)
	AT	<u>205</u>	Kendall, K.J. and Cohen, S.N., "Plasmid Transfer in <i>Streptomyces lividans</i> : Identification of a <i>kil-kor</i> System Associated with the Transfer Region of pIJ101," <i>J. Bacteriol.</i> 169:4177-4183, American Society for Microbiology (1987)

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	AR	206	Lyznik, L.A., <i>et al.</i> , "Activity of yeast FLP recombinase in maize and rice protoplasts," <i>Nucleic Acids Res.</i> 21:969-975, Oxford University Press (1993)
	AS	206	Maniatis, T., "Recombinant DNA Procedures in the Study of Eukaryotic Genes," in <i>Cell Biology: A Comprehensive Treatise, Volume 3, Gene Expression: The Production of RNA's</i> , Goldstein, L., and Prescott, D.M., eds., Academic Press, Inc., New York, NY, pp. 563-608 (1980)
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	AR	<u>207</u>	McKnight, S.L., "Functional Relationships between Transcriptional Control Signals of the Thymidine Kinase Gene of Herpes Simplex Virus," <i>Cell</i> 31:355-365, MIT (1982)
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	AR	<u>208</u>	Peterson, B.Ø. and Shuman, S., "Hisitidine 265 Is Important for Covalent Catalysis by Vaccinia Topoisomerase and Is Conserved in All Eukaryotic Type I Enzymes," <i>J. Biol. Chem.</i> 272:3891-3896, The American Society for Biochemistry and Molecular Biology, Inc. (February 1997)
	AS	<u>208</u>	Rausch, H. and Lehmann, M., "Structural analysis of the actinophage ΦC31 attachment site," <i>Nucleic Acids Res.</i> 19:5187-5189, IRL Press (1991)
	AT	<u>208</u>	Sadowski, I., <i>et al.</i> , "A Noncatalytic Domain Conserved among Cytoplasmic Protein-Tyrosine Kinases Modifies the Kinase Function and Transforming Activity of Fujinami Sarcoma Virus P130 ^{gag-fps} ," <i>Mol. Cell. Biol.</i> 6:4396-4408, American Society for Microbiology (1986)

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	AR	209	Sauer, B. and Henderson, N., "Targeted Insertion of Exogenous DNA into the Eukaryotic Genome by the Cre Recombinase," <i>New Biol.</i> 2:441-449, Saunders Scientific Publications/W.B. Saunders Company (1990)
	AS	209	Senecoff, J.F., <i>et al.</i> , "The FLP recombinase of the yeast 2-μm plasmid: Characterization of its recombination site," <i>Proc. Natl. Acad. Sci. USA</i> 82:7270-7274, National Academy of Sciences (1985)
	AT	209	Shaikh, A.C. and Sadowski, P.D., "The Cre Recombinase Cleaves the <i>lox</i> Site in <i>trans</i> ," <i>J. Biol. Chem.</i> 272:5695-5702, The American Society for Biochemistry and Molecular Biology, Inc. (February 1997)

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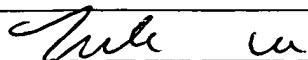
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	AR	<u>210</u>	Shirai, M., <i>et al.</i> , "Site-Specific Integration of the Actinophage R4 Genome into the Chromosome of <i>Streptomyces parvulus</i> upon Lysogenization," <i>J. Bacteriol.</i> 173:4237-4239, American Society for Microbiology (1991)
	AS	<u>210</u>	Shuman, S., <i>et al.</i> , "Characterization of Vaccinia Virus DNA Topoisomerase I Expressed in <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 263:16401-16407, The American Society for Biochemistry and Molecular Biology, Inc. (1988)
	AT	<u>210</u>	Shuman, S., "Site-specific Interaction of Vaccinia Virus Topoisomerase I with Duplex DNA. Minimal DNA Substrate for Strand Cleavage <i>In Vitro</i> ," <i>J. Biol. Chem.</i> 266:11372-11379, The American Society for Biochemistry and Molecular Biology, Inc. (1991)

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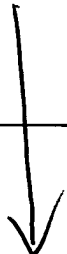
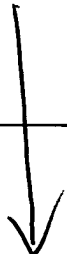
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	AR	<u>211</u>	Shuman, S., "Erratum: Site-specific Interaction of Vaccinia Virus Topoisomerase I with Duplex DNA. Minimal DNA Substrate for Strand Cleavage <i>In Vitro</i> ," <i>J. Biol. Chem.</i> 266:20576-20577, The American Society for Biochemistry and Molecular Biology, Inc. (1991)
	AS	<u>211</u>	Silver, P.A., <i>et al.</i> , "Amino terminus of the yeast <i>GAL4</i> gene product is sufficient for nuclear localization," <i>Proc. Natl. Acad. Sci. USA</i> 81:5951-5955, National Academy of Sciences (1984)
	AT	<u>211</u>	Stark, W.M., <i>et al.</i> , "Catalysis by site-specific recombinases," <i>Trends Genet.</i> 8:432-439, Elsevier Science (1992)

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	AS	212	van Deursen, J., <i>et al.</i> , "Cre-mediated site-specific translocation between nonhomologous mouse chromosomes," <i>Proc. Natl. Acad. Sci. USA</i> 92:7376-7380, National Academy of Sciences (1995)
	AT	212	Ward, J.M., <i>et al.</i> , "Construction and characterisation of a series of multi-copy promoter-probe plasmid vectors for <i>Streptomyces</i> using the aminoglycoside phosphotransferase gene from Tn5 as indicator," <i>Mol. Gen. Genet.</i> 203:468-478, Springer-Verlag (1986)

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<i>u</i>	AR	213	Invitrogen Life Technologies online catalog, "Directional TOPO Entry Vectors," 4 pages, accessed September 27, 2002, available at: http://www.invitrogen.com/content.cfm?pageid=3799&cfid=2897960&cftoken=88086554				
<i>u</i>	AS	213	Dialog File 351, Derwent World Patent Index, English Language Abstract for French Patent No. FR 2 670 502 (Document AL20) and PCT Patent No. WO 92/10577 (Document AM20), WPI Accession No. 9107201				
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